

40th Anniversary of the Greenland Magnetometer Array

and

IMAGE 2013 meeting

May 15-16, 2013, DTU Campus, Kongens Lyngby, Denmark

The Greenland Magnetometer Array is celebrating its 40th anniversary. To complete magnetic data from early observatories, first variometer stations have been installed along the East and West coast of Greenland by Eigil Friis-Christensen. The array covers the polar cap, the dayside cusp, the auroral oval and subauroral latitudes providing excellent opportunities to investigate different aspects of polar ionospheric and magnetospheric current systems.

IMAGE, the International Monitor for Auroral Geomagnetic Effects, consists of some 30 magnetometer stations in northern Europe and is supported by 10 institutes from 7 countries. The main objective is to study polar electrojets, with additional possibilities to study long term trends in geomagnetic activity and induction processes.

The investigation of near Earth Space and Geomagnetism has its fundamental roots in geomagnetic observations at ground stations, with high latitudes being of particular importance. The knowledge on magnetic ground data analysis and the associated technical skills, accumulated over many years for ground magnetometer data, are also an important ingredient to the successful design and operation of high precision magnetic satellite missions. We look forward to presentations and discussions on magnetometer array science and coordinated investigations using ground- and space-based magnetic observations.

Scientific committee:

Claudia Stolle
Eija Tanskanen
Eigil Friis-Christensen

Local organizing committee:

Jürgen Matzka
Claudia Stolle
Anna Willer
Lars W. Pedersen

Contact: image2013@space.dtu.dk

Preliminary program**Wednesday, May 15, 2013**

Morning session, 9:00 at room S16, building 101

IMAGE meeting 2013: science studies

Afternoon session, 14:00 at room S16, building 101

40 years of Greenland magnetometers: science studies

Accepted invited speakers:

Robert Clauer – Virginia Polytechnic Institute and State University Bradley, USA

Jesper Gjerloev – Applied Physics Laboratory, Johns Hopkins University, USA

Magnar Johnsen Gullikstad – University of Tromsø, Norway

Craig Heinselmann – EISCAT Kiruna, Sweden

Hermann Lühr – GFZ Potsdam, Germany

Tuija Pulkkinen – Aalto University, Finland

Esa Turunen – Sodankylä Geophysical Observatory, Finland

Evening session, 18:00 at building 328, DTU Space institute

40 years of Greenland magnetometers: celebration & small talk

(Meet the participants, tell stories from the past, plan future research, food and beverage will be served)

Thursday, May, 16, 2013

morning session, 9:00 at room S16, building 101

IMAGE meeting 2013: operations and techniques

afternoon session, 13:00 bus transport from building 101 to Geomagnetic Observatory Brorfelde

Geomagnetic observations in Denmark and Greenland

(Bus transport to CPH airport is provided in the late afternoon.)

Registration and Abstract submission

Please register and submit your abstract by email to image2013@space.dtu.dk not later than 15 April 2013. Registration is of course also possible without abstract submission. There is no registration fee.

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Useful information on transport and accommodation:

The campus of DTU (including building 101 and DTU Space institute building 327/328) lies about 10 km north of Copenhagen. There is a good public transport service from Copenhagen to DTU:

- Bus line 150S and line 173E starting **from Nørreport** station in the city center of Copenhagen drive directly close to building 101.
- Train connection with S-train B or E **from main train station** Copenhagen to Lyngby train station. from where several buses run to the campus. You can jump in the S-train also from Nørreport station.
- **From the airport**, frequent subway trains are running to Nørreport station. There are also train connections (e.g., Øresund train) to Copenhagen main railway station.

A map of DTU Campus is attached indicating the meeting places.

Local directions are also provided at:

http://www.dtu.dk/English/About_DTU/DTU%20Directory/from_airport_central_stations

We recommend to book accommodation close by Nørreport /Copenhagen or the train stations. Examples for good and not too expensive hotels are:

<http://www.wakeupcopenhagen.com/> (near main train station Copenhagen)

<http://www.cabinn.com/hoteller-i-koebenhavn/hoteller-i-koebenhavn.html> (Cabinn *City* near Copenhagen main train station; Cabinn *Scandinavia* 1 km away from Nørreport station)

<http://www.fortunen.dk/> (1.5 kilometer from DTU Campus, at Lyngbys Eremitage parken)

www.scandichotels.com/eremitage (in Lyngby, 600 m from Lyngby station and ca. 2 km to DTU Campus)

Looking forward to welcome you to DTU!

Meeting website:

http://www.space.dtu.dk/English/Research/Scientific_data_and_models/Magnetic_Ground_Stations/Greenland40

Magnetometer Array websites:

<http://www.space.dtu.dk/MagneticGroundStations>

<http://space.fmi.fi/image/index.html>

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Signaturforklaring

- Institutter
- Oticon Salen
- Administration mv.
- Campusservice
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- Scion DTU
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